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(54) Title: VIRAL DECONSTRUCTION THROUGH CAPSID ASSEMBLY IN VITRO

(57) Abstract: A cell-free method for translation and assembly of viral capsid and capsid intermediates is disclosed for use in deconstructing an unknown virus and for screening for compounds that inhibit assembly of viral capsids for the unknown virus.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28622

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C 12N 7/00

US CL : 435/235.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/5, 7.1, 183, 235.1; 536/23.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Pubmed

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	SAKALIAN. M. Synthesis and Assembly of Retrovirus Gag Precursors into Immature Capsids In Vitro Journal of Virology, June 1996, Vol. 70, No. 6, Abstract, pages 3707, 3708	1-7, 9-11, 15, 19, 24-26 ----- 8, 16-18 12
Y	BOLLENGIE. F. Peptide mapping of mammalian brain protein h3 in subsets of tissues and ligand binding studies Arch Int Physiol Biochim Biophys, January-February 1993, Vol. 101, No. 1, Abstract	13, 14, 16, 17, 18
Y	US 5,750,394 (PALESE et al) 12 May 1998 (12.05.1998) Abstract, column 3, lines 29-51, column 12, lines 8-16	13, 14
Y	BEATCH. M.D. Rubella Virus Capsid Associates with Host Cell Protein p32 and Localizes to Mitochondria Journal of Virology June 2000, Vol. 74, No. 12, pages 5569-	20-23
A	SOOCHUL. P. The Eek receptor, a member of the Eph family of tyrosine protein kinases, can be activated by three different Eph family ligands. Oncogene, 1997, vol. 14, pages 533-542.	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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